

FEB 27 2002  
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## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/424,091  
Source: 1644  
Date Processed by STIC: 2/14/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax).

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER  
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND  
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002



1644

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/424,091

DATE: 02/14/2002  
TIME: 15:53:09

Input Set : A:\11 Jan 02 Sequence list output.TXT  
Output Set: N:\CRF3\02142002\I424091.raw

3 <110> APPLICANT: Richard Andrew Kay  
W--> 4 <120> TITLE OF INVENTION: Immunological method  
7 <130> FILE REFERENCE: DUNW/P19095US  
9 <140> CURRENT APPLICATION NUMBER: 09/424091  
C--> 10 <141> CURRENT FILING DATE: 2000-02-23  
12 <150> PRIOR APPLICATION NUMBER: GB 9710820.3  
W--> 13 <151> PRIOR FILING DATE: 27 May 1997  
15 <160> NUMBER OF SEQ ID NOS: 47  
17 <170> SOFTWARE: SeqWin99  
19 <210> SEQ ID NO: 1  
20 <211> LENGTH: 20  
21 <212> TYPE: DNA  
22 <213> ORGANISM: Unknown  
24 <220> FEATURE:  
25 <223> OTHER INFORMATION:  
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28 catcagaagc agagatctcc  
30 <210> SEQ ID NO: 2  
31 <211> LENGTH: 20  
32 <212> TYPE: DNA  
33 <213> ORGANISM: Unknown  
35 <220> FEATURE:  
36 <223> OTHER INFORMATION:  
38 <400> SEQUENCE: 2  
39 gatgtcaagc tggtcgagaa  
41 <210> SEQ ID NO: 3  
42 <211> LENGTH: 18  
43 <212> TYPE: DNA  
44 <213> ORGANISM: Artificial Sequence  
46 <220> FEATURE:  
47 <223> OTHER INFORMATION: 5' PCR Primer  
49 <400> SEQUENCE: 3  
50 ctgaggtgca actactca  
52 <210> SEQ ID NO: 4  
53 <211> LENGTH: 24  
54 <212> TYPE: DNA  
55 <213> ORGANISM: Artificial Sequence  
57 <220> FEATURE:  
58 <223> OTHER INFORMATION: 5' PCR Primer  
60 <400> SEQUENCE: 4  
61 gtgttccca agggagccat tgcc  
63 <210> SEQ ID NO: 5  
64 <211> LENGTH: 21

Does Not Comply  
Corrected Diskette Needed

see item # 11 on Error  
Summary Sheet.

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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/424,091

DATE: 02/14/2002  
TIME: 15:53:09

Input Set : A:\11 Jan 02 Sequence list output.TXT  
Output Set: N:\CRF3\02142002\I424091.raw

65 <212> TYPE: DNA  
66 <213> ORGANISM: Artificial Sequence  
68 <220> FEATURE:  
69 <223> OTHER INFORMATION: 5' PCR Primer  
71 <400> SEQUENCE: 5  
72 ggtgaacagt caacaggag a 21  
74 <210> SEQ ID NO: 6  
75 <211> LENGTH: 21  
76 <212> TYPE: DNA  
77 <213> ORGANISM: Artificial Sequence  
79 <220> FEATURE:  
80 <223> OTHER INFORMATION: 5' PCR Primer  
82 <400> SEQUENCE: 6  
83 acaaggcatta ctgtactcct a 21  
85 <210> SEQ ID NO: 7  
86 <211> LENGTH: 18  
87 <212> TYPE: DNA  
88 <213> ORGANISM: Artificial Sequence  
90 <220> FEATURE:  
91 <223> OTHER INFORMATION: 5' PCR Primer  
93 <400> SEQUENCE: 7  
94 ggccctgaac attcagga 18  
96 <210> SEQ ID NO: 8  
97 <211> LENGTH: 20  
98 <212> TYPE: DNA  
99 <213> ORGANISM: Artificial Sequence  
101 <220> FEATURE:  
102 <223> OTHER INFORMATION: 5' PCR Primer  
104 <400> SEQUENCE: 8  
105 gtcactttct agcctgctga 20  
107 <210> SEQ ID NO: 9  
108 <211> LENGTH: 21  
109 <212> TYPE: DNA  
110 <213> ORGANISM: Artificial Sequence  
112 <220> FEATURE:  
113 <223> OTHER INFORMATION: 5' PCR Primer  
115 <400> SEQUENCE: 9  
116 aggagccatt gtccagataa a 21  
118 <210> SEQ ID NO: 10  
119 <211> LENGTH: 22  
120 <212> TYPE: DNA  
121 <213> ORGANISM: Artificial Sequence  
123 <220> FEATURE:  
124 <223> OTHER INFORMATION: 5' PCR Primer  
126 <400> SEQUENCE: 10  
127 ggagagaatg tggagcagca tc 22  
129 <210> SEQ ID NO: 11  
130 <211> LENGTH: 21  
131 <212> TYPE: DNA

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/424,091

DATE: 02/14/2002  
 TIME: 15:53:09

Input Set : A:\11 Jan 02 Sequence list output.TXT  
 Output Set: N:\CRF3\02142002\I424091.raw

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132 <213> ORGANISM: Artificial Sequence
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135 <223> OTHER INFORMATION: 5' PCR Primer
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140 <210> SEQ ID NO: 12
141 <211> LENGTH: 24
142 <212> TYPE: DNA
143 <213> ORGANISM: Artificial Sequence
145 <220> FEATURE:
146 <223> OTHER INFORMATION: 5' PCR Primer
148 <400> SEQUENCE: 12
149 acccagctgg tggagcagag ccct 24
151 <210> SEQ ID NO: 13
152 <211> LENGTH: 21
153 <212> TYPE: DNA
154 <213> ORGANISM: Artificial Sequence
156 <220> FEATURE:
157 <223> OTHER INFORMATION: 5' PCR Primer
159 <400> SEQUENCE: 13
160 agaaagcaag gaccaagtgt t 21
162 <210> SEQ ID NO: 14
163 <211> LENGTH: 24
164 <212> TYPE: DNA
165 <213> ORGANISM: Artificial Sequence
167 <220> FEATURE:
168 <223> OTHER INFORMATION: 5' PCR Primer
170 <400> SEQUENCE: 14
171 cagaaggtaa ctcaagcgca gact 24
173 <210> SEQ ID NO: 15
174 <211> LENGTH: 19
175 <212> TYPE: DNA
176 <213> ORGANISM: Artificial Sequence
178 <220> FEATURE:
179 <223> OTHER INFORMATION: 5' PCR Primer
181 <400> SEQUENCE: 15
182 gcttatgaga acactgcgt 19
184 <210> SEQ ID NO: 16
185 <211> LENGTH: 20
186 <212> TYPE: DNA
187 <213> ORGANISM: Artificial Sequence
189 <220> FEATURE:
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193 gcagcttccc ttccagcaat 20
195 <210> SEQ ID NO: 17
196 <211> LENGTH: 20
197 <212> TYPE: DNA
198 <213> ORGANISM: Artificial Sequence

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/424,091

DATE: 02/14/2002

TIME: 15:53:09

Input Set : A:\11 Jan 02 Sequence list output.TXT  
Output Set: N:\CRF3\02142002\I424091.raw

200 <220> FEATURE:  
201 <223> OTHER INFORMATION: 5' PCR Primer  
203 <400> SEQUENCE: 17  
204 agaacctgac tgcccaggaa 20  
206 <210> SEQ ID NO: 18  
207 <211> LENGTH: 21  
208 <212> TYPE: DNA  
209 <213> ORGANISM: Artificial Sequence  
211 <220> FEATURE:  
212 <223> OTHER INFORMATION: 5' PCR Primer  
214 <400> SEQUENCE: 18  
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217 <210> SEQ ID NO: 19  
218 <211> LENGTH: 19  
219 <212> TYPE: DNA  
220 <213> ORGANISM: Artificial Sequence  
222 <220> FEATURE:  
223 <223> OTHER INFORMATION: 5' PCR Primer  
225 <400> SEQUENCE: 19  
226 gactatacta acagcatgt 19  
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230 <212> TYPE: DNA  
231 <213> ORGANISM: Artificial Sequence  
233 <220> FEATURE:  
234 <223> OTHER INFORMATION: 5' PCR Primer  
236 <400> SEQUENCE: 20  
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239 <210> SEQ ID NO: 21  
240 <211> LENGTH: 26  
241 <212> TYPE: DNA  
242 <213> ORGANISM: Artificial Sequence  
244 <220> FEATURE:  
245 <223> OTHER INFORMATION: Antisense 3' PCR primer  
247 <400> SEQUENCE: 21  
248 aataggtcga gacacttgtc actgga 26  
250 <210> SEQ ID NO: 22  
251 <211> LENGTH: 29  
252 <212> TYPE: DNA  
253 <213> ORGANISM: Artificial Sequence  
255 <220> FEATURE:  
256 <223> OTHER INFORMATION: Antisense mid PCR primer  
258 <400> SEQUENCE: 22  
259 cttgtcactg gatttagatc tctcagctg 29  
261 <210> SEQ ID NO: 23  
262 <211> LENGTH: 30  
263 <212> TYPE: DNA  
264 <213> ORGANISM: Artificial Sequence  
266 <220> FEATURE:

RAW SEQUENCE LISTING DATE: 02/14/2002  
 PATENT APPLICATION: US/09/424,091 TIME: 15:53:09

Input Set : A:\11 Jan 02 Sequence list output.TXT  
 Output Set: N:\CRF3\02142002\I424091.raw

267 <223> OTHER INFORMATION: Antisense 5' PCR primer  
 269 <400> SEQUENCE: 23  
 270 gtacacggca gggtcagggt tctggatatt 30  
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 273 <211> LENGTH: 30  
 274 <212> TYPE: DNA  
 275 <213> ORGANISM: Artificial Sequence  
 277 <220> FEATURE:  
 278 <223> OTHER INFORMATION: 5' PCR Primer  
 280 <400> SEQUENCE: 24  
 281 aagagagagc aaaaggaaac attcttgaac 30  
 283 <210> SEQ ID NO: 25  
 284 <211> LENGTH: 30  
 285 <212> TYPE: DNA  
 286 <213> ORGANISM: Artificial Sequence  
 288 <220> FEATURE:  
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 291 <400> SEQUENCE: 25  
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 295 <211> LENGTH: 30  
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 297 <213> ORGANISM: Artificial Sequence  
 299 <220> FEATURE:  
 300 <223> OTHER INFORMATION: 5' PCR Primer  
 302 <400> SEQUENCE: 26  
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 305 <210> SEQ ID NO: 27  
 306 <211> LENGTH: 30  
 307 <212> TYPE: DNA  
 308 <213> ORGANISM: Artificial Sequence  
 310 <220> FEATURE:  
 311 <223> OTHER INFORMATION: 5' PCR Primer  
 313 <400> SEQUENCE: 27  
 314 ctgaggccac atatgagagt ggatttgtca 30  
 316 <210> SEQ ID NO: 28  
 317 <211> LENGTH: 30  
 318 <212> TYPE: DNA  
 319 <213> ORGANISM: Artificial Sequence  
 321 <220> FEATURE:  
 322 <223> OTHER INFORMATION: 5' PCR Primer  
 324 <400> SEQUENCE: 28  
 325 cagagaaaca aaggaaactt ccctggtcga 30  
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 328 <211> LENGTH: 30  
 329 <212> TYPE: DNA  
 330 <213> ORGANISM: Artificial Sequence  
 332 <220> FEATURE:  
 333 <223> OTHER INFORMATION: 5' PCR Primer

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/424,091

DATE: 02/14/2002

TIME: 15:53:10

Input Set : A:\11 Jan 02 Sequence list output.TXT  
Output Set: N:\CRF3\02142002\I424091.raw

L:4 M:283 W: Missing Blank Line separator, <120> field identifier  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:13 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD

## Raw Sequence Listing Error Summary

ERROR DETECTED    SUGGESTED CORRECTION    SERIAL NUMBER: 09/424,091

**ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE**

- 1 Wrapped Nucleic    The number/text at the end of each line "wrapped" down to the next line. This may occur if your file Wrapped Aminos was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length    The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino Numbering    The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII    The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length    Sequence(s) \_\_\_\_\_ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0 "bug"    A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) \_\_\_\_\_. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences (OLD RULES)    Sequence(s) \_\_\_\_\_ missing. If intentional, please insert the following lines for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped  
  
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences (NEW RULES)    Sequence(s) \_\_\_\_\_ missing. If intentional, please insert the following lines for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
- 9 Use of n's or Xaa's (NEW RULES)    Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213> Response    Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220>    Sequence(s) 1, 2 missing the <220> "Feature" and associated numeric identifiers and responses.  
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0 "bug"    Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.